CLAIMS

- An isolated polynucleotide hybridisable to a polynucleotide selected from the group consisting of SEQ ID NO: 33 64 or from the group consisting of SEQ
 ID NO: 1 32
 - 2) An isolated polynucleotide according to claim 1 hybridisable under high stringency conditions to a polynucleotide selected from the group consisting of SEQ ID NO: 33 64 or from the group consisting of SEQ ID NO: 1 32
- An isolated polynucleotide according to claims 1 or 2 obtainable from a
 filamentous fungus.
 - 4) An isolated polynucleotide according to claim 3 obtainable from A. niger.
 - 5) An isolated polynucleotide encoding a polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 65 96 or functional equivalents thereof.
- 15 6) An isolated polynucleotide encoding at least one functional domain of a polypeptide selected from the group consisting of SEQ ID NO: 65 96 or functional equivalents thereof.

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- 7) An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of SEQ ID NO: 33 64 or from the group consisting of SEQ ID NO: 1 32 or functional equivalents thereof
 - 8) An isolated polynucleotide selected from the group consisting of SEQ ID NO: 33 64 or from the group consisting of SEQ ID NO: 1 32.
 - 9) A vector comprising a polynucleotide sequence according to claims 1 to 8.
- 10) A vector according to claim 9 wherein said polynucleotide sequence
 25 according to claims 1 to 8 is operatively linked with regulatory sequences suitable for expression of said polynucleotide sequence in a suitable host cell.
 - A vector according to claim 10 wherein said suitable host cell is a filamentous fungus

- 12) A method for manufacturing a polynucleotide according to claims 1 8 or a vector according to claims 9 to 11 comprising the steps of culturing a host cell transformed with said polynucleotide or said vector and isolating said polynucleotide or said vector from said host cell.
- 5 13) An isolated polypeptide selected from the group consisting of SEQ ID NO: 65 96 or functional equivalents thereof.
 - 14) An isolated polypeptide according to claim 13 obtainable from Aspergillus niger
- 15) An isolated polypeptide obtainable by expressing a polynucleotide according to claims 1 to 8 or a vector according to claims 9 to 11 in an appropriate host cell, e.g. Aspergillus niger.
 - 16) Recombinant pectinase comprising a functional domain of a PEC 1 PEC 32 polypeptide.
- 17) A method for manufacturing a polypeptide according to claims 13 to 16

 15 comprising the steps of transforming a suitable host cell with an isolated polynucleotide according to claims 1 to 8 or a vector according to claims 9 to 11, culturing said cell under conditions allowing expression of said polynucleotide and optionally purifying the encoded polypeptide from said cell or culture medium.
- 20 18) A recombinant host cell comprising a polynucleotide according to claims 1 to 8 or a vector according to claims 9 to 11.
 - 19) A recombinant host cell expressing a polypeptide according to claims 13 to 16.
 - 20) Purified antibodies reactive with a polypeptide according to claims 13 to 16.
- 25 21) Fusion protein comprising a polypeptide sequence according to claims 13 to 16.